

Name: _____ Date: _____

1. What is the primary function of the ABS hydraulic control unit's pump motor?
 - A. To generate power assist for normal braking
 - B. To store brake fluid during the hold-release-reapply cycle
 - C. To maintain brake fluid pressure in the system
 - D. To vent pressure from the brake circuit

2. Which of the following is NOT a warning issued by the ABS controller before automatic emergency braking is initiated?
 - A. A buzzer
 - B. A warning light flashing on the dash
 - C. A vibration of the driver's seat
 - D. A loud siren

3. What is the role of the electronic brake control module in hill start assist?
 - A. To calculate the brake pressure needed to hold the vehicle on an incline
 - B. To release the brake pressure when the accelerator pedal is pressed
 - C. To monitor the wheel speed sensors for deceleration rates
 - D. To command the solenoid valves on and off for proportioning control

4. Which of the following is NOT an input used for the hill start assist feature?
 - A. Brake switch
 - B. Brake pressure sensors
 - C. Wheel speed sensors
 - D. Accelerator pedal position

5. What does the term "Electronic Brake Distribution (EBD)" refer to?
 - A. A system that applies the brakes autonomously to avoid a collision
 - B. The mechanical proportioning valve on the vehicle
 - C. The software and hydraulic modulator assembly that maintain brake balance
 - D. The high-pressure electric pump used in some ABS

6. During the ABS pressure increase stage, what happens to the isolation solenoid?
 - A. It is electrically and hydraulically closed
 - B. It is electrically opened and hydraulically closed
 - C. It is electrically and hydraulically opened
 - D. It remains inactive

7. What is the purpose of the accumulators in ABS with a conventional master cylinder and vacuum booster?
 - A. To generate power assist for normal braking
 - B. To act as temporary storage reservoirs for brake fluid
 - C. To maintain brake fluid pressure for hill assist
 - D. To control the proportioning of brake pressure

8. How does an active wheel speed sensor differ from a passive one?

- A. It has a coil with a magnetic core
- B. It requires an external power source to operate
- C. It can only detect when a wheel is moving
- D. It is also known as a variable reluctance sensor

9. What is the consequence of ignoring the warnings issued by an ABS controller before automatic emergency braking?

- A. The system will shut down to prevent damage
- B. The vehicle will engage in an emergency stop
- C. The system will provide brake assist or apply the brakes autonomously
- D. The driver will be alerted by an additional set of warnings

10. Which type of solenoid can pull a valve to an intermediate position when a certain level of current is applied?

- A. A single-position solenoid
- B. A multi-position solenoid
- C. A pressure reduction solenoid
- D. A release solenoid

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Chapter 105

Multiple Choice Quiz A

Answer Key

1. A

2. D

3. A

4. C

5. C

6. C

7. B

8. B

9. C

10. B